

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1317646

Luminaire Tested: P3SQAS02R709835DE010 E3SQCLSWW1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-72)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS02R709835DE010 E3SQCLSWW1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , E3SQCLSWW1MMS TR  
Light Source: -  
Ballast/Driver: -

**Summary**

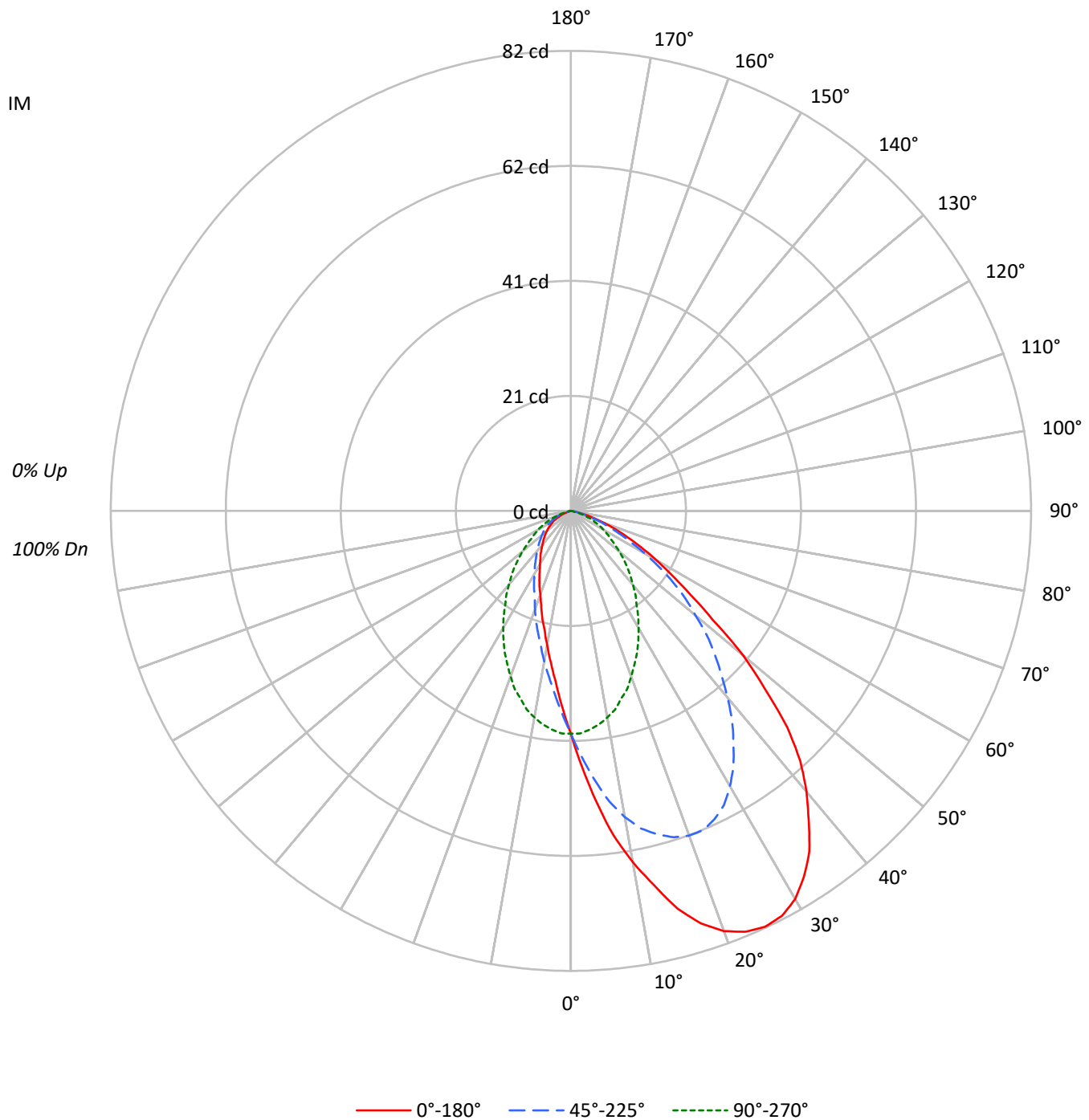
Lumens per Lamp: N/A  
Luminaire Lumens: 89.0 lumens  
Efficiency: N/A  
Efficacy: 24.7 lumens/watt  
Spacing Criteria (0/90/45): 1.52 / 0.97 / 1.29  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |     |     |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  |  | 97  | 95  | 93  |  | 94  | 92  | 90  | 89  |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  |  | 88  | 84  | 81  |  | 85  | 82  | 79  | 77  |
| 3   | 95  | 86  | 79  | 73  | 93  | 84  | 78  | 73  | 82  | 76  | 72  |  | 79  | 74  | 70  |  | 76  | 73  | 69  | 67  |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 67  | 63  |  | 71  | 66  | 62  |  | 69  | 65  | 61  | 59  |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  |  | 65  | 59  | 55  |  | 63  | 58  | 54  | 52  |
| 6   | 75  | 63  | 55  | 50  | 74  | 63  | 55  | 49  | 61  | 54  | 49  |  | 59  | 53  | 49  |  | 58  | 52  | 48  | 46  |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  |  | 54  | 48  | 44  |  | 53  | 48  | 43  | 42  |
| 8   | 66  | 53  | 45  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  |  | 50  | 44  | 39  |  | 49  | 43  | 39  | 38  |
| 9   | 62  | 49  | 41  | 36  | 60  | 49  | 41  | 36  | 47  | 41  | 36  |  | 46  | 40  | 36  |  | 45  | 40  | 36  | 34  |
| 10  | 58  | 45  | 38  | 33  | 57  | 45  | 38  | 33  | 44  | 37  | 33  |  | 43  | 37  | 33  |  | 42  | 37  | 33  | 31  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°  | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0°  | 6837  | 6837  | 6837 | 6837 | 6837 |
| 5°  | 8990  | 8316  | 6760 | 5670 | 5307 |
| 10° | 11122 | 9688  | 6540 | 4774 | 4250 |
| 15° | 13087 | 10644 | 6169 | 4030 | 3512 |
| 20° | 14607 | 11290 | 5755 | 3427 | 2914 |
| 25° | 15544 | 11516 | 5302 | 2945 | 2527 |
| 30° | 15889 | 11276 | 4793 | 2565 | 2188 |
| 35° | 15579 | 10617 | 4289 | 2313 | 1976 |
| 40° | 14681 | 9757  | 3867 | 2113 | 1776 |
| 45° | 13274 | 8841  | 3459 | 1924 | 1632 |
| 50° | 10744 | 7770  | 3001 | 1795 | 1500 |
| 55° | 7807  | 6696  | 2582 | 1681 | 1351 |
| 60° | 6062  | 5270  | 2308 | 1550 | 1240 |
| 65° | 4564  | 3831  | 1915 | 1386 | 897  |
| 70° | 3223  | 2719  | 1410 | 1057 | 554  |
| 75° | 1863  | 1597  | 732  | 466  | 133  |
| 80° | 397   | 595   | 198  | 0    | 0    |
| 85° | 0     | 0     | 0    | 0    | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13274 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.9    | 4.4       |
| 10°-20°   | 11.6   | 13.0      |
| 20°-30°   | 17.4   | 19.6      |
| 30°-40°   | 19.4   | 21.8      |
| 40°-50°   | 17.2   | 19.3      |
| 50°-60°   | 11.7   | 13.1      |
| 60°-70°   | 6.1    | 6.9       |
| 70°-80°   | 1.7    | 2.0       |
| 80°-90°   | 0.1    | 0.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 32.9   | 36.9      |
| 0°-40°    | 52.3   | 58.7      |
| 0°-60°    | 81.1   | 91.1      |
| 0°-90°    | 89.0   | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 89.0   | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|----|-----|-----|------|------|------|
| 0°  | 40 | 40  | 40  | 40   | 40   |      |
| 5°  | 52 | 48  | 39  | 33   | 31   | 5    |
| 15° | 73 | 60  | 35  | 23   | 20   | 21   |
| 25° | 82 | 61  | 28  | 16   | 13   | 38   |
| 35° | 74 | 50  | 20  | 11   | 9    | 46   |
| 45° | 54 | 36  | 14  | 8    | 7    | 41   |
| 55° | 26 | 22  | 9   | 6    | 4    | 24   |
| 65° | 11 | 9   | 5   | 3    | 2    | 11   |
| 75° | 3  | 2   | 1   | 1    | 0    | 3    |
| 85° | 0  | 0   | 0   | 0    | 0    | 0    |
| 90° | 0  | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°   | 5°   | 10°  | 15°  | 20°  | 25°  | 30°  | 35°  | 40°  | 45°  | 50°  |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 |
| 2.5°  | 45.7 | 45.5 | 45.3 | 45.3 | 45.1 | 44.9 | 44.5 | 44.5 | 44.2 | 43.8 | 43.4 |
| 5°    | 52.0 | 52.0 | 52.0 | 51.5 | 51.5 | 50.7 | 50.3 | 49.6 | 48.9 | 48.1 | 47.2 |
| 7.5°  | 58.4 | 58.4 | 57.8 | 57.6 | 57.1 | 56.3 | 55.8 | 54.7 | 53.3 | 52.2 | 50.7 |
| 10°   | 63.6 | 63.6 | 63.1 | 62.7 | 61.6 | 60.8 | 59.7 | 58.4 | 57.1 | 55.4 | 53.5 |
| 12.5° | 68.3 | 68.5 | 67.8 | 67.0 | 65.9 | 64.8 | 63.3 | 61.6 | 59.9 | 58.0 | 55.6 |
| 15°   | 73.4 | 73.2 | 72.2 | 71.3 | 70.0 | 68.3 | 66.4 | 64.2 | 62.0 | 59.7 | 57.1 |
| 17.5° | 77.1 | 76.9 | 76.0 | 74.9 | 73.2 | 71.1 | 69.1 | 66.4 | 63.8 | 61.0 | 57.8 |
| 20°   | 79.7 | 79.5 | 78.6 | 77.1 | 75.4 | 73.2 | 70.7 | 67.8 | 64.9 | 61.6 | 58.0 |
| 22.5° | 81.2 | 81.0 | 79.9 | 78.6 | 76.6 | 74.1 | 71.5 | 68.3 | 65.1 | 61.6 | 57.6 |
| 25°   | 81.8 | 81.4 | 80.3 | 78.8 | 76.7 | 74.1 | 71.1 | 67.8 | 64.4 | 60.6 | 56.5 |
| 27.5° | 81.4 | 81.0 | 79.7 | 78.0 | 75.8 | 72.8 | 69.8 | 66.4 | 62.9 | 59.1 | 54.8 |
| 30°   | 79.9 | 79.4 | 78.2 | 76.6 | 74.1 | 71.1 | 67.9 | 64.4 | 60.6 | 56.7 | 52.4 |
| 32.5° | 77.3 | 76.9 | 75.8 | 73.9 | 71.5 | 68.5 | 65.3 | 61.6 | 57.8 | 53.9 | 49.6 |
| 35°   | 74.1 | 73.4 | 72.2 | 70.6 | 68.1 | 65.1 | 62.0 | 58.0 | 54.5 | 50.5 | 46.4 |
| 37.5° | 69.6 | 69.4 | 68.1 | 66.8 | 64.4 | 61.2 | 58.2 | 54.5 | 50.9 | 47.2 | 43.0 |
| 40°   | 65.3 | 64.9 | 63.8 | 62.3 | 59.9 | 57.1 | 53.9 | 50.5 | 47.0 | 43.4 | 39.7 |
| 42.5° | 60.5 | 59.9 | 59.1 | 57.6 | 55.4 | 52.6 | 49.6 | 46.2 | 43.0 | 39.7 | 36.3 |
| 45°   | 54.5 | 54.3 | 53.3 | 52.6 | 50.5 | 48.1 | 45.1 | 42.1 | 38.9 | 36.3 | 33.7 |
| 47.5° | 46.8 | 46.6 | 46.4 | 45.9 | 44.7 | 43.0 | 40.8 | 38.0 | 35.6 | 32.9 | 29.4 |
| 50°   | 40.1 | 39.9 | 39.5 | 39.3 | 38.4 | 37.4 | 35.7 | 34.1 | 32.0 | 29.0 | 26.2 |
| 52.5° | 31.8 | 32.0 | 32.6 | 32.8 | 32.6 | 31.8 | 31.1 | 30.5 | 27.7 | 25.8 | 23.2 |
| 55°   | 26.0 | 26.0 | 25.8 | 26.0 | 26.2 | 26.6 | 26.6 | 25.8 | 24.0 | 22.3 | 20.0 |
| 57.5° | 21.3 | 21.3 | 21.3 | 21.3 | 21.3 | 21.5 | 21.5 | 21.3 | 20.4 | 18.7 | 16.7 |
| 60°   | 17.6 | 17.4 | 17.4 | 17.6 | 17.4 | 17.4 | 17.6 | 17.6 | 16.7 | 15.3 | 13.5 |
| 62.5° | 14.2 | 14.2 | 14.2 | 14.0 | 14.0 | 14.2 | 14.2 | 14.0 | 13.3 | 12.0 | 10.7 |
| 65°   | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.4 | 11.2 | 11.0 | 10.3 | 9.4  | 8.4  |
| 67.5° | 8.6  | 8.6  | 8.8  | 8.6  | 8.8  | 8.8  | 8.8  | 8.4  | 7.9  | 7.1  | 6.6  |
| 70°   | 6.4  | 6.4  | 6.4  | 6.6  | 6.7  | 6.7  | 6.6  | 6.2  | 5.8  | 5.4  | 4.9  |
| 72.5° | 4.3  | 4.5  | 4.5  | 4.5  | 4.7  | 4.7  | 4.5  | 4.3  | 4.1  | 3.7  | 3.6  |
| 75°   | 2.8  | 2.6  | 2.8  | 2.8  | 3.0  | 3.0  | 2.8  | 2.8  | 2.6  | 2.4  | 2.2  |
| 77.5° | 1.3  | 1.3  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  | 1.3  | 1.3  |
| 80°   | 0.4  | 0.4  | 0.4  | 0.6  | 0.6  | 0.6  | 0.6  | 0.6  | 0.6  | 0.6  | 0.6  |
| 82.5° | 0.0  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

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**CANDELA DISTRIBUTION (continued):**

|       | 55°  | 60°  | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|------|-------|------|--------|------|--------|------|
| 0°    | 39.7 | 39.7 | 39.7  | 39.7 | 39.7   | 39.7 | 39.7   | 39.7 |
| 2.5°  | 43.0 | 42.5 | 41.7  | 39.7 | 37.8   | 36.1 | 35.2   | 35.0 |
| 5°    | 46.0 | 45.3 | 43.4  | 39.1 | 35.6   | 32.8 | 31.1   | 30.7 |
| 7.5°  | 49.2 | 47.7 | 45.1  | 38.4 | 33.3   | 29.8 | 27.9   | 27.3 |
| 10°   | 51.7 | 49.8 | 46.2  | 37.4 | 31.1   | 27.3 | 25.1   | 24.3 |
| 12.5° | 53.3 | 51.1 | 47.2  | 36.3 | 29.2   | 24.7 | 22.5   | 21.7 |
| 15°   | 54.3 | 51.8 | 47.4  | 34.6 | 27.0   | 22.6 | 20.2   | 19.7 |
| 17.5° | 54.7 | 51.8 | 47.0  | 33.3 | 24.9   | 20.6 | 18.3   | 17.6 |
| 20°   | 54.5 | 51.1 | 46.0  | 31.4 | 23.0   | 18.7 | 16.5   | 15.9 |
| 22.5° | 53.7 | 50.0 | 44.5  | 29.6 | 21.1   | 16.8 | 15.0   | 14.6 |
| 25°   | 52.6 | 48.5 | 42.9  | 27.9 | 19.5   | 15.5 | 13.7   | 13.3 |
| 27.5° | 50.7 | 46.6 | 40.6  | 26.0 | 18.0   | 14.2 | 12.5   | 12.0 |
| 30°   | 48.3 | 44.4 | 38.4  | 24.1 | 16.5   | 12.9 | 11.4   | 11.0 |
| 32.5° | 45.7 | 41.7 | 36.1  | 22.3 | 15.2   | 12.0 | 10.5   | 10.1 |
| 35°   | 42.7 | 38.9 | 33.3  | 20.4 | 13.9   | 11.0 | 9.5    | 9.4  |
| 37.5° | 39.7 | 35.9 | 30.9  | 18.9 | 12.7   | 10.1 | 8.8    | 8.6  |
| 40°   | 36.3 | 33.3 | 29.6  | 17.2 | 11.8   | 9.4  | 8.2    | 7.9  |
| 42.5° | 34.3 | 30.1 | 25.5  | 15.7 | 10.9   | 8.6  | 7.5    | 7.3  |
| 45°   | 29.8 | 26.8 | 23.0  | 14.2 | 9.9    | 7.9  | 6.9    | 6.7  |
| 47.5° | 26.8 | 24.1 | 20.6  | 12.7 | 9.2    | 7.3  | 6.4    | 6.2  |
| 50°   | 23.8 | 21.3 | 18.0  | 11.2 | 8.4    | 6.7  | 5.8    | 5.6  |
| 52.5° | 20.8 | 18.3 | 15.3  | 9.9  | 7.5    | 6.2  | 5.2    | 5.1  |
| 55°   | 17.8 | 15.5 | 12.7  | 8.6  | 6.7    | 5.6  | 4.9    | 4.5  |
| 57.5° | 14.6 | 12.7 | 10.9  | 7.7  | 6.0    | 5.1  | 4.3    | 3.9  |
| 60°   | 11.8 | 10.7 | 9.2   | 6.7  | 5.2    | 4.5  | 3.7    | 3.6  |
| 62.5° | 9.5  | 8.6  | 7.7   | 5.8  | 4.7    | 3.9  | 3.4    | 2.8  |
| 65°   | 7.7  | 7.1  | 6.4   | 4.7  | 3.9    | 3.4  | 2.8    | 2.2  |
| 67.5° | 6.0  | 5.6  | 5.1   | 3.9  | 3.2    | 2.8  | 2.1    | 1.7  |
| 70°   | 4.7  | 4.3  | 3.9   | 2.8  | 2.4    | 2.1  | 1.5    | 1.1  |
| 72.5° | 3.4  | 3.0  | 2.8   | 2.1  | 1.7    | 1.5  | 0.9    | 0.6  |
| 75°   | 2.1  | 2.1  | 1.7   | 1.1  | 0.9    | 0.7  | 0.4    | 0.2  |
| 77.5° | 1.1  | 1.1  | 0.9   | 0.6  | 0.6    | 0.2  | 0.0    | 0.0  |
| 80°   | 0.6  | 0.4  | 0.4   | 0.2  | 0.2    | 0.0  | 0.0    | 0.0  |
| 82.5° | 0.2  | 0.0  | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 85°   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 87.5° | 0.0  | 0.0  | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 90°   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)